Theory Of Architecture (3) Prof. Yasser Farghaly

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- Function: Museum of wild nature
- Form : complex of polygons plan
- **Dimensions** : **1300** *m*²
- Type Of Building: Cultural Architecture
- Design Approaches: Environmental Oriented
- Design Principles:
 - <u>Proportion</u>: The proportions between the building blocks are very coherent to each other.
 - Rhythm: The Building blocks make the rhythm.
 - <u>Unity</u>: The building appears as if a group of blocks associate together.
 - <u>Contrast</u>: The use of varied materials (glass & natural surrounded) at the interface leads to approaching contrast.





• Design Principles:



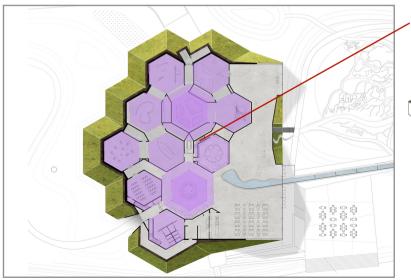
Proportion & Rhythm



Contrast (glass & natural surrounded)



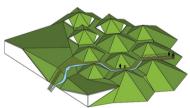




1) Balance

- 2) Proportion
- 3) Rhythm
- 4) Unity
- 5) Movement
- 6) Emphasis
- 7) Contrast





- Building Components:
 - Main Elements: Reception, Library, Exhibitions, Atriums.
 - Secondary Elements: Cinema, Restaurant, Whisper Boats, Museum Shops, Terrace.
 - Services: Toilets, Wardrobe, Stairs, Corridors.
- Function Of Building :
 - Internal Function (Pragmatic Function):
 - Natural Museum = Reception , Library , Internal Exhibitions , External Exhibitions , Cinema ,
 Restaurant , Whisper Boats , Shops
 - External Function (Building & Society Function):
 - The purpose of Biesbosch museum is to collect, preserve, interpret, and display natural objects of artistic, cultural, or scientific significance for the education of the public.
- Users:
 - Gender: Male, Female
 - Age: 17 and Over

• Bubble Digram (Ground Floor): **Toilets Stairs Terrace** Restaurant Museum Corridor shop Stairs Stairs Entrance Cinema Information Nursery **Point Pond** Corridor **Temporary** Library Corridor **Exhibition** St. Elizabeth **Fishery** Flood Stairs Entrance **Biesbosch Experience** Rush&Cane Water Agriculture Culture Safety **Temporary Exhibition** Nature & Corridor Culture Recreation Stairs Offices (In Upper Floor) **Direct Relation** ----- Semi Relation



• Existing Condition Analysis: • Levels of building: Offices (In Upper Floor) Walk path (In Roof covered in grass)

Sections

Biological: Wild nature reserve

• Why this museum is an Environmentally Friendly (Environmental Treatment)?



• Interior Shots:





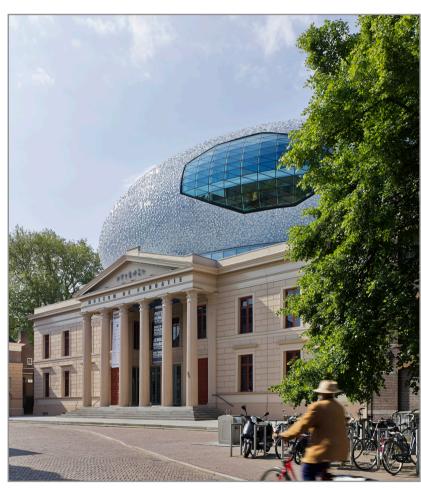


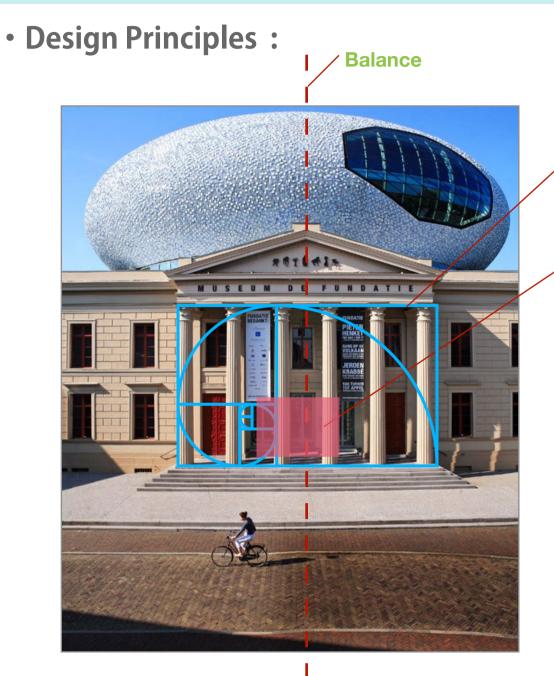






- Function: Museum of Arts
- Form : Rectangular & Oval plan
- Type Of Building: Cultural Architecture
- Design Approaches: Form Oriented
- Design Principles:
 - Balance: The classical style that inspired from the former Palace of Justice make both sides of the building give rise to the presence of an axis (symmetry).
 - <u>Proportion</u>: The classical style characterized by the golden ratio that made the building visually stable.
 - <u>Emphasis</u>: Emphasis on the building entrance by the Corinthian columns, this gives the building a solitary characte
 - **Contrast**: The mediaeval façade with the classical façade structure make the contrast.





- 1) Balance
- 2) Proportion
- 3) Rhythm
- 4) Unity
- 5) Movement
- 6) Emphasis
- 7) Contrast

Contrast

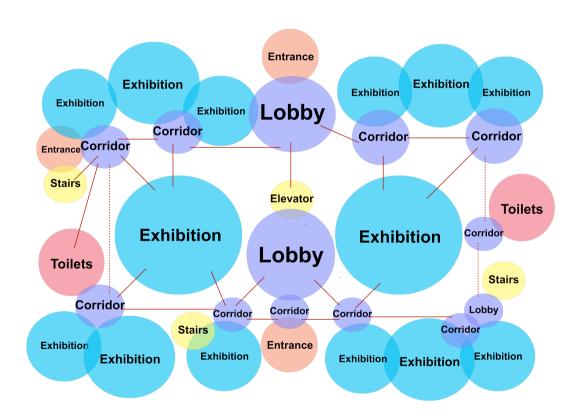
Proportion

Emphasis (Entrance)

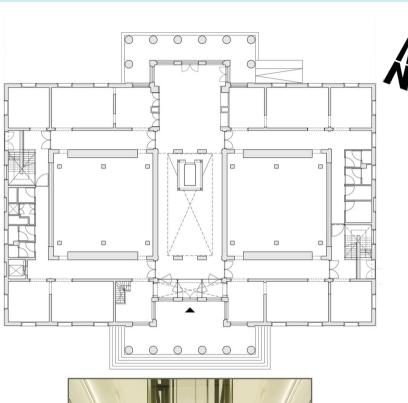


- Building Components:
 - Main Elements: Exhibitions, Atriums
 - Secondary Elements : Cafe , Terrace
 - Services: Toilets, Stairs, Elevator, Lobby, Corridors.
- Function Of Building:
 - Internal Function (Pragmatic Function):
 - Natural Museum = Exhibitions, Cafe.
 - External Function (Building & Society Function):
 - The museum de Fundatie display works by Rembrandt, Saenredam, Turner, Monet, Rodin, Van Gogh, Mondrian and Van der Leck. In addition, the museum organizes exhibitions of artists.
- Users:
 - Gender: Male, Female
 - Age: 17 and Over

• Bubble Digram (Ground Floor):

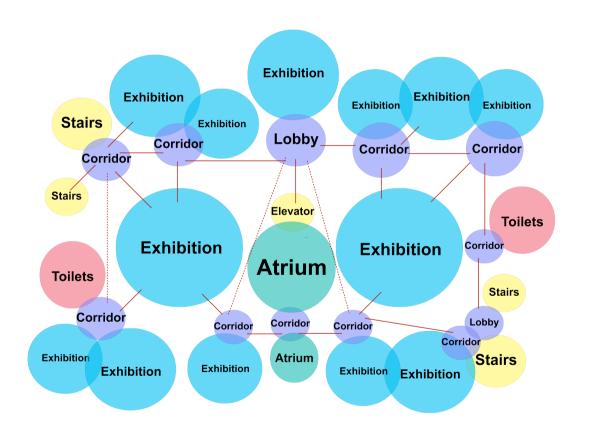




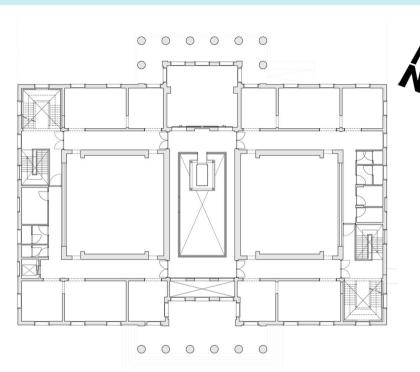




• Bubble Digram (First Floor):

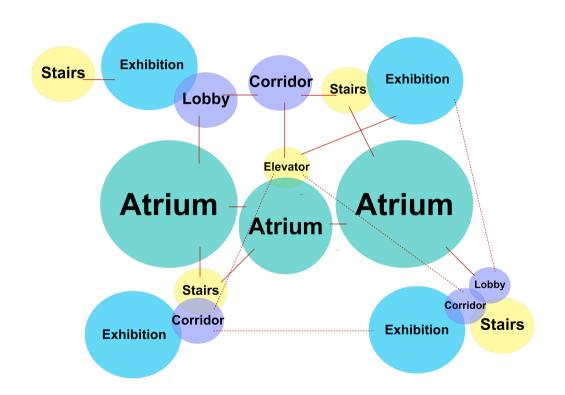


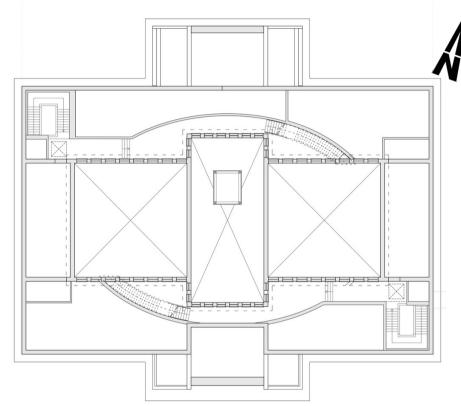






• Bubble Digram (Second Floor):





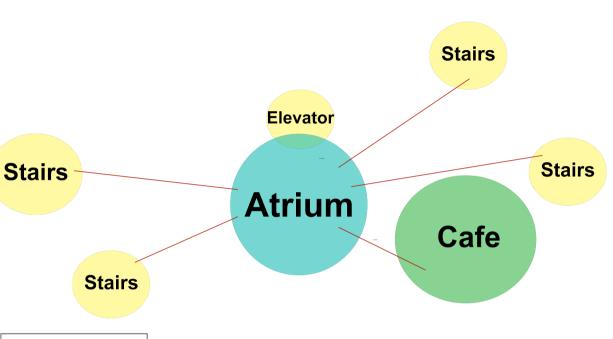


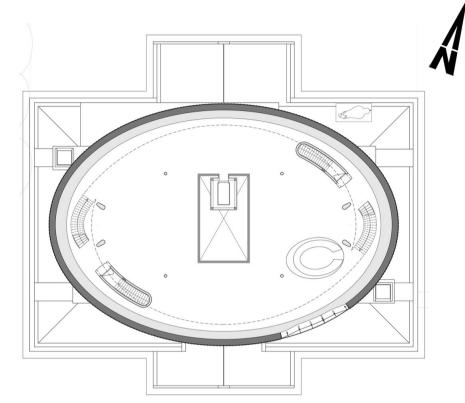
Direct Relation
Semi Relation

• Bubble Digram (Third Floor):

Direct Relation

Semi Relation

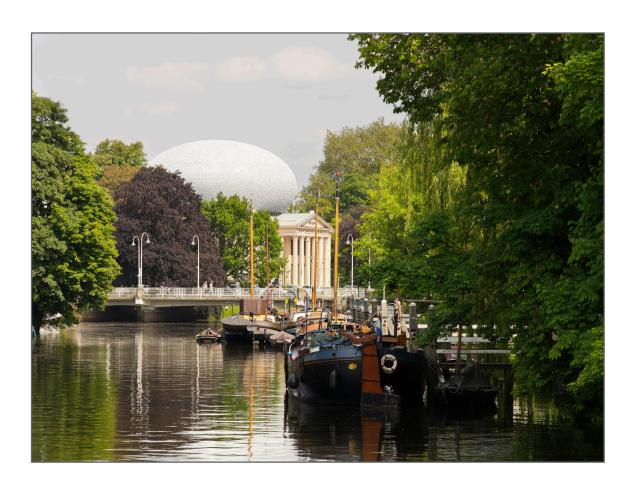








- Site Analysis:
 - Natural Features: The Museum de Fundatie on island surrounded by Stadsgracht water channel.
 - Manmade Features: Other buildings surrounded the museum, Bridges.





South Elev.

• Existing Condition Analysis: Building Skin (55,000 3D ceramic elements) **Building Skin (Curtain Wall)**

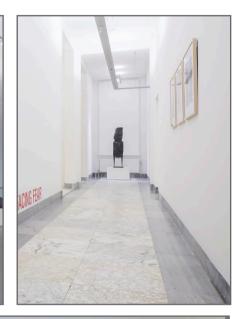
North Elev.

Section

• Interior Shots:











References:

- https://www.archdaily.com/777852/biesbosch-museum-island-studio-marco-vermeulen/ 56568886e58ece1533000290-biesbosch-museum-island-studio-marco-vermeulen-section?
 next_project=no
- https://www.archdaily.com/458073/museum-de-fundatie-bierman-henket-architecten?
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